

# **U-Viewer USB Handhold Digital Microscope**

**MS-01U**

## **User's Manual**

### **Thank you~**

Thank you for choosing U-Viewer USB handhold digital microscope!

The U-Viewer USB handhold digital microscope is an exciting new device that let's you view clear many micro- objects with it, and has a wide scope of applications, such as,

- Industrial Inspection
- Computer Parts inspection
- Telecom module inspection
- Scientific teaching tool
- Medical analysis
- School Research tool
- Insect dissection / examination
- Plant dissection / examination
- Skin examination
- Textile Inspection
- Collections / Coin/ Jewelry Inspection
- Printing Inspection
- And more.....

Please read this manual carefully before using U-Viewer USB handhold digital microscope!!!

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## Product Specifications

- ◆ Operation system: Windows XP/Vista
- ◆ PC interface: USB 2. 0
- ◆ Image Sensor: 1. 3 Mega pixels
- ◆ Video Capture Resolution 1280x1024, 640x480, 320x240
- ◆ Color:24bit RGB
- ◆ Lens: Dual Axis 27X & 100X Microscope Lens
- ◆ Focus Range Manual Focus From 10mm to infinite
- ◆ Magnification Ratio 10X to 230X
- ◆ White Balance: Auto.
- ◆ Exposure: Auto
- ◆ Light Source: 8 LED White Light
- ◆ Power supply: 5V DV from USB Port
- ◆ Size: 121mm (L) X35mm (R)

## Safety Cautions

1. Avoid touching the lens with finger to dirty it and protect the product from electrostatic damage.
2. Do not attempt to disassembly any part of this product.
3. Do not attempt to service this product yourself. Opening the covers may expose you to dangerous voltage points or other risks.
4. Storing and operating U-Viewer USB handhold digital microscope at Temp: -20 ~ 45°C, Humidity: 45% ~ 85%, as this will extend Product life and prevent damage to the product.
5. Do not allow this product to have contact with water or other liquids. If water or other liquids enter the product interior, immediately unplug the product from PC. Continued use of the product may result in fire or an electrical shock.
6. Do not use any detergent or volatile solution, which will damage the camera case, painted surfaces and lens. Only use a soft cleaning cloth to clean it.
7. Do not place this product near a heat source or expose direct flame, avoid the lens damaged by high temperature or humidity
8. If the lens is dirty, please use a lens brush on soft cloth to wipe clean. Avoid touching it with your fingers. Exercise care to avoid scratching the lens.
9. Need to read U-Viewer USB handhold digital microscope User's Manual before using and storing it.
10. To avoid electric shock, remove all electricity source before moving PC.

## Package Contents

The U-Viewer USB handhold digital microscope package includes the following:

1. CD ROM (Driver)
2. Stand (Plastic)
3. Gift Box



## System Requirements

In order to install U-Viewer USB handhold digital microscope, you will need the following **minimal** systems:

- ①. OS: Windows XP or Vista
- ②. CPU: Pentium IV 1.0G, Celeron, AMD Athlon
- ③. CD-ROM
- ④. Available USB port (if it is USB1.1, maybe some software function will be disabled)
- ⑤. 256MB RAM
- ⑥. 100MB available hard disk space
- ⑦. Graphic card: 16-bit

### **Recommended PC specification for optimal performance:**

- √ OS: Windows XP SP2 or Vista SP1 or above
- √ CPU: Pentium IV 1.6G, Celeron, AMD Athlon or above
- √ CD-ROM
- √ Available USB 2.0
- √ 512MB RAM or above
- √ 10GB available hard disk space or above
- √ Graphic card: 32-bit or above

## Software Installation process

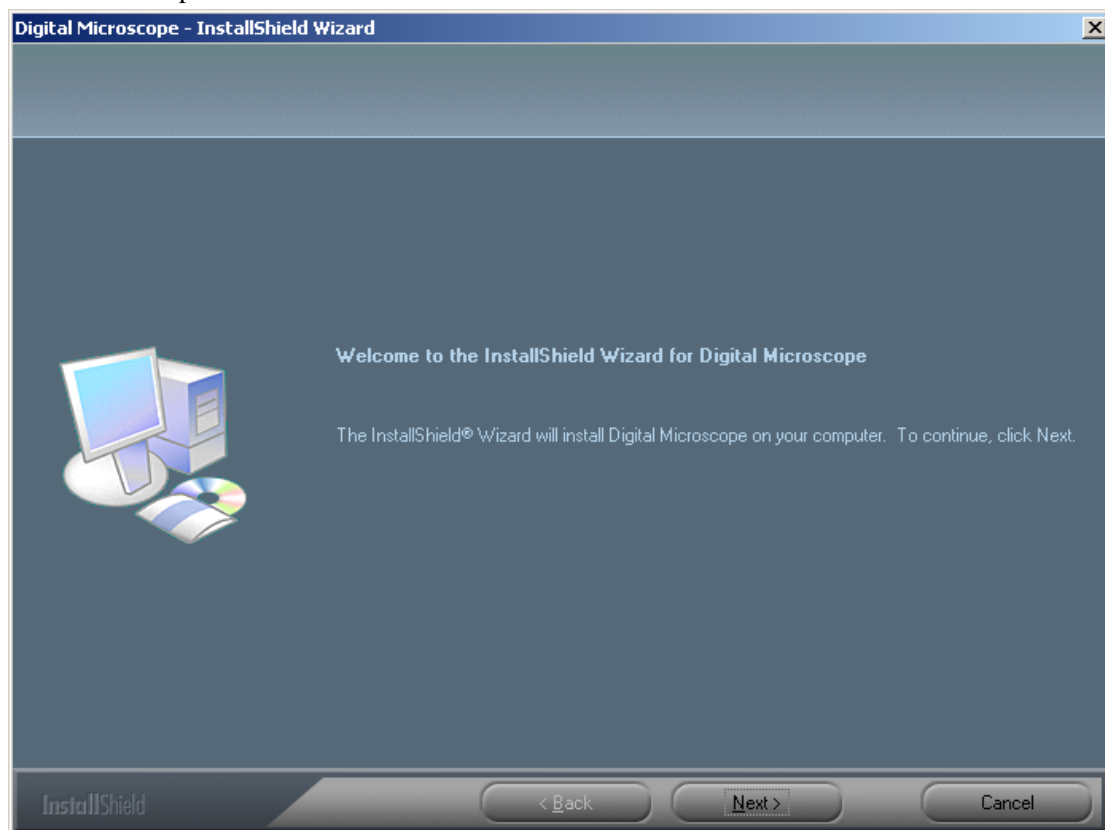
The following instructions will guide you to through the process of installing the U-Viewer USB handheld digital microscope:

- I. Power on PC and place installation CD into CD-ROM driver, do not connect USB Cable from U-Viewer Device to PC before software installation.
- II. Select SOFTWARE->APPLICATION, and follow the instructions to complete installation.
- III. As driver installation completed, and if system asking for restarting, please restarting PC.

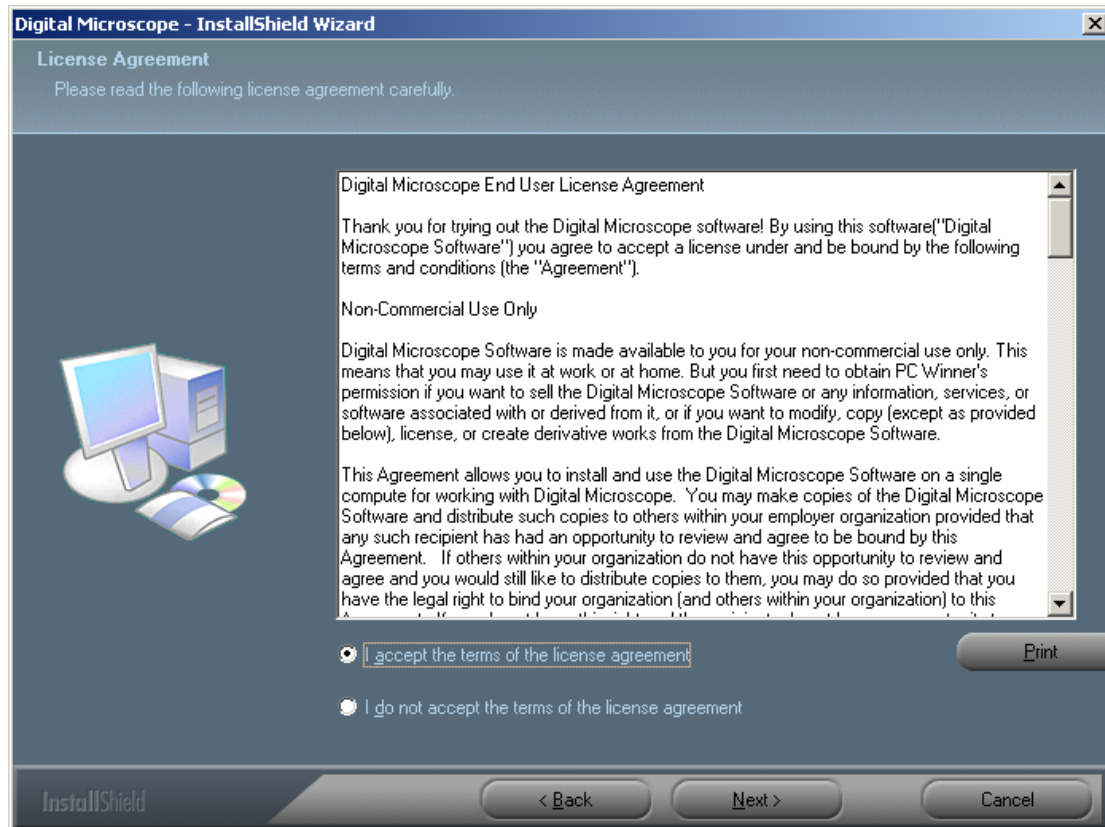
Note: The driver needs to be installed only once for each computer.

## Window XP OS Installation

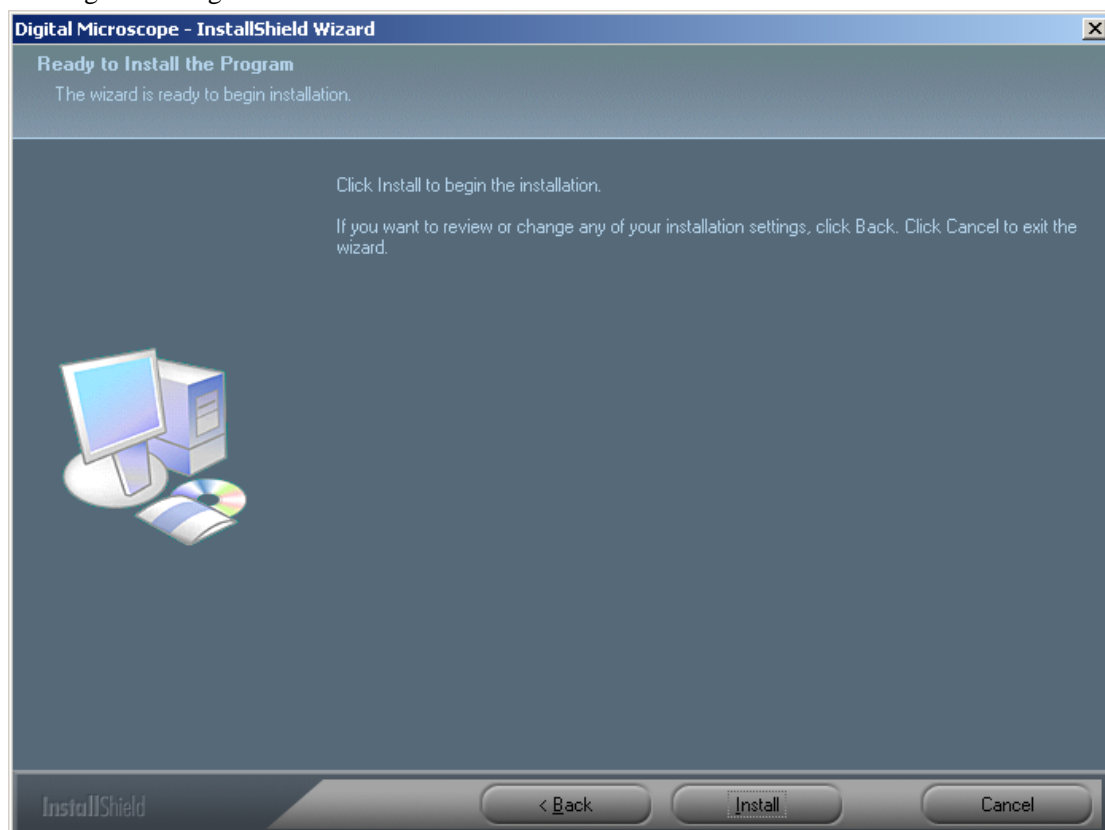
1. Please click the Digital Microscope Software ,You will see the following popup .Press “Next” to proceed or “Cancel” to abort installation.



2. You will see the End User License Agreement. If you accept the License Agreement, then you can Click the “Next” button which is available to process, or “Cancel” to abort installation.

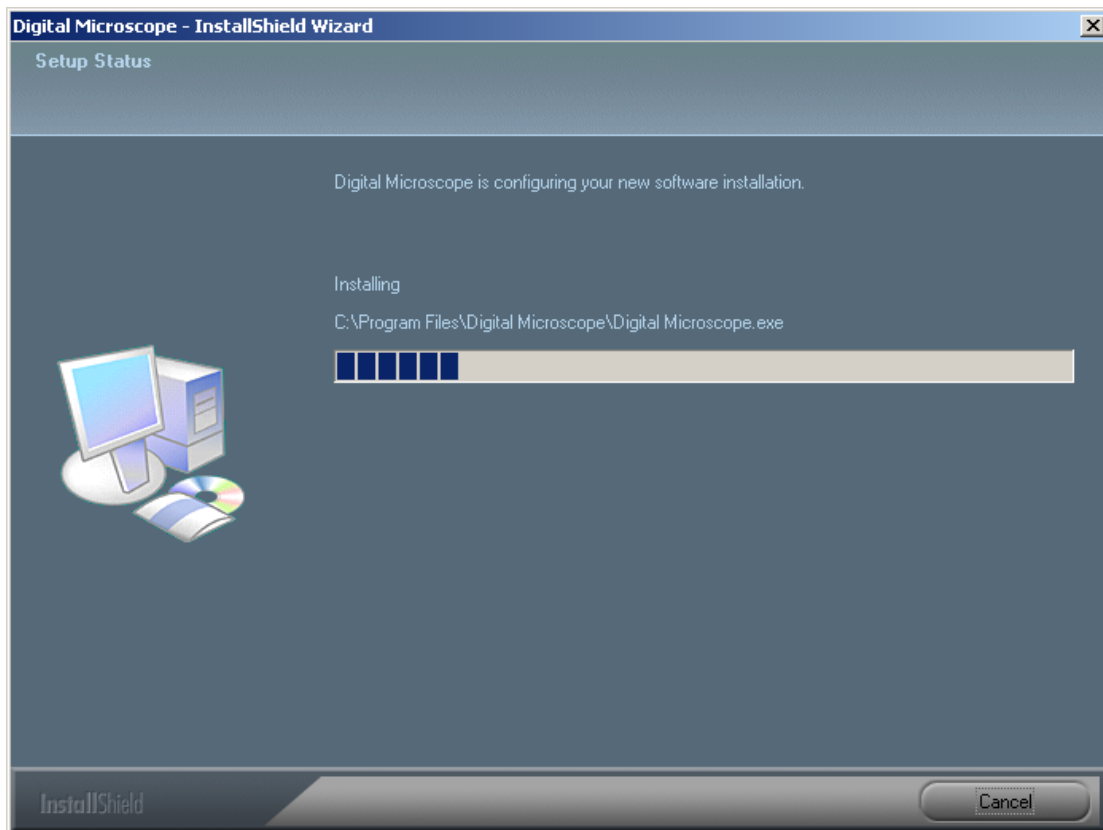


3. You will be able to install the application. Click "Install" to start to install, click "Cancel" button, it will abort installation. Click on "Back" if you wish to read the End User License Agreement again.

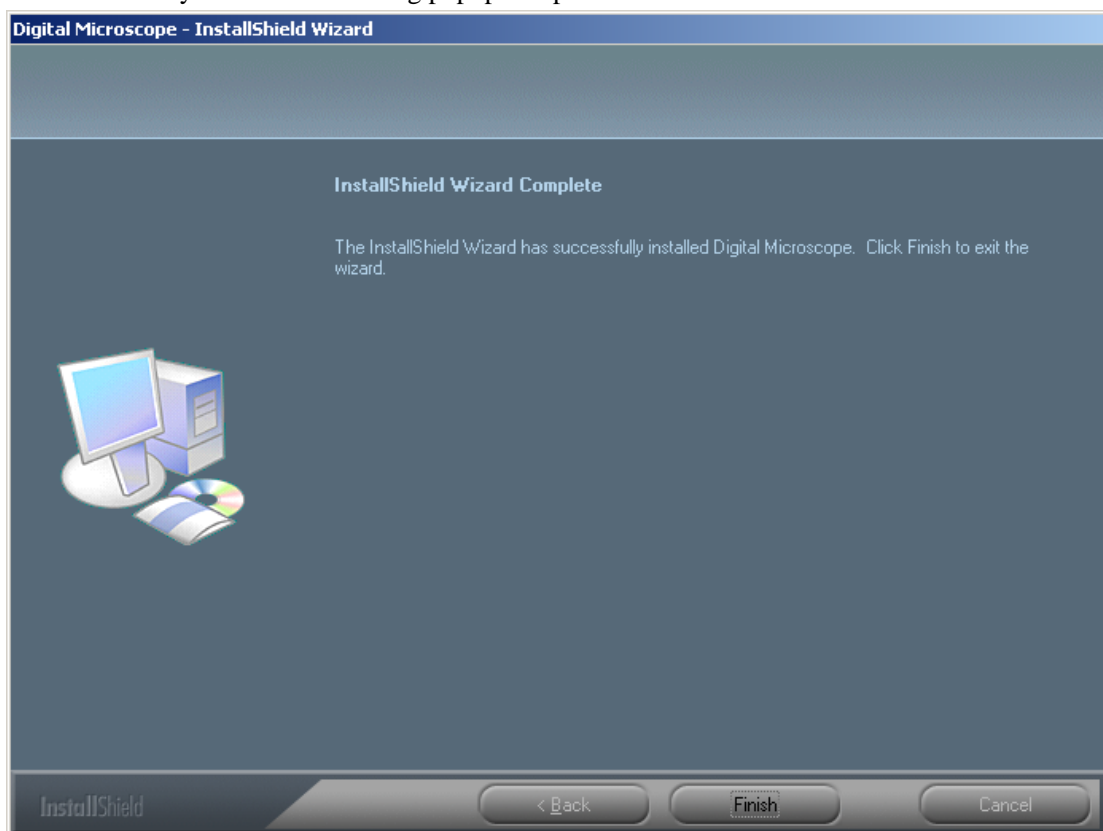


4. You will see the following progress bar below indicating that the installation is proceeding. If

click “Cancel” button, it will abort installation.



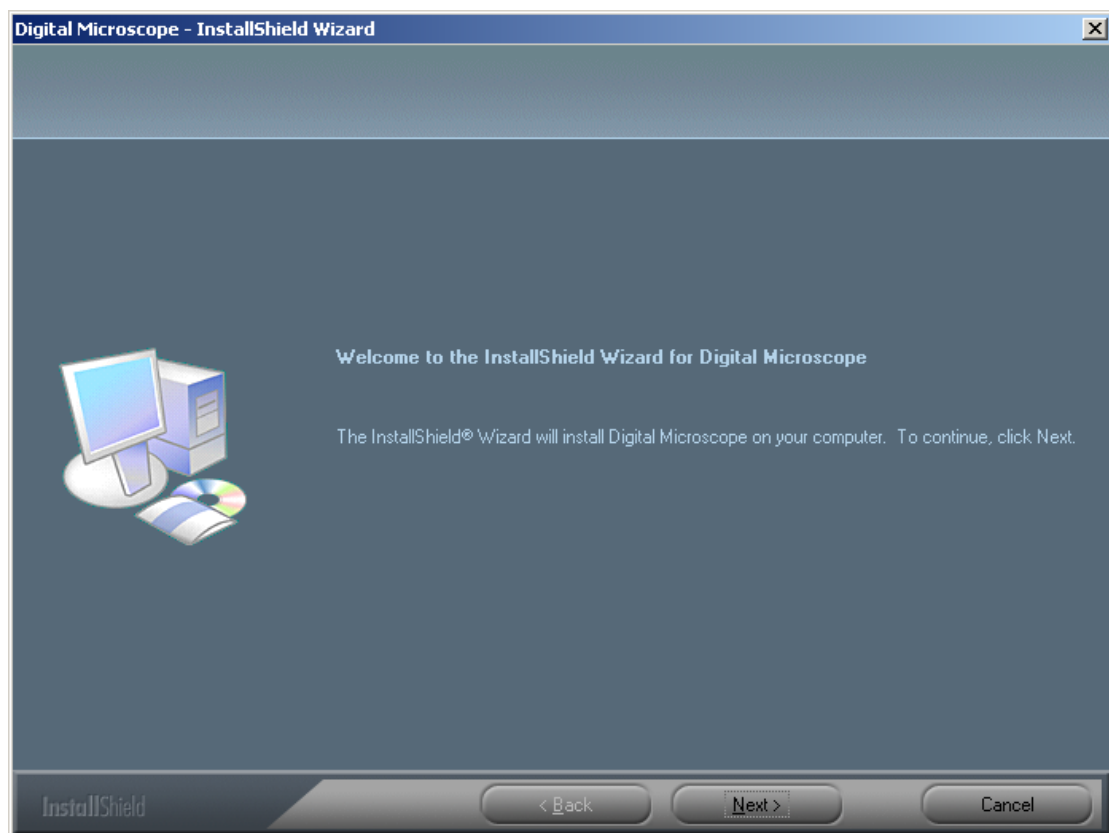
5. Wait until you see the following popup and press “Finish” button.



Please plug USB cable to U-Viewer USB handheld digital microscope Device to connect with PC. System will automatically search and install the driver.

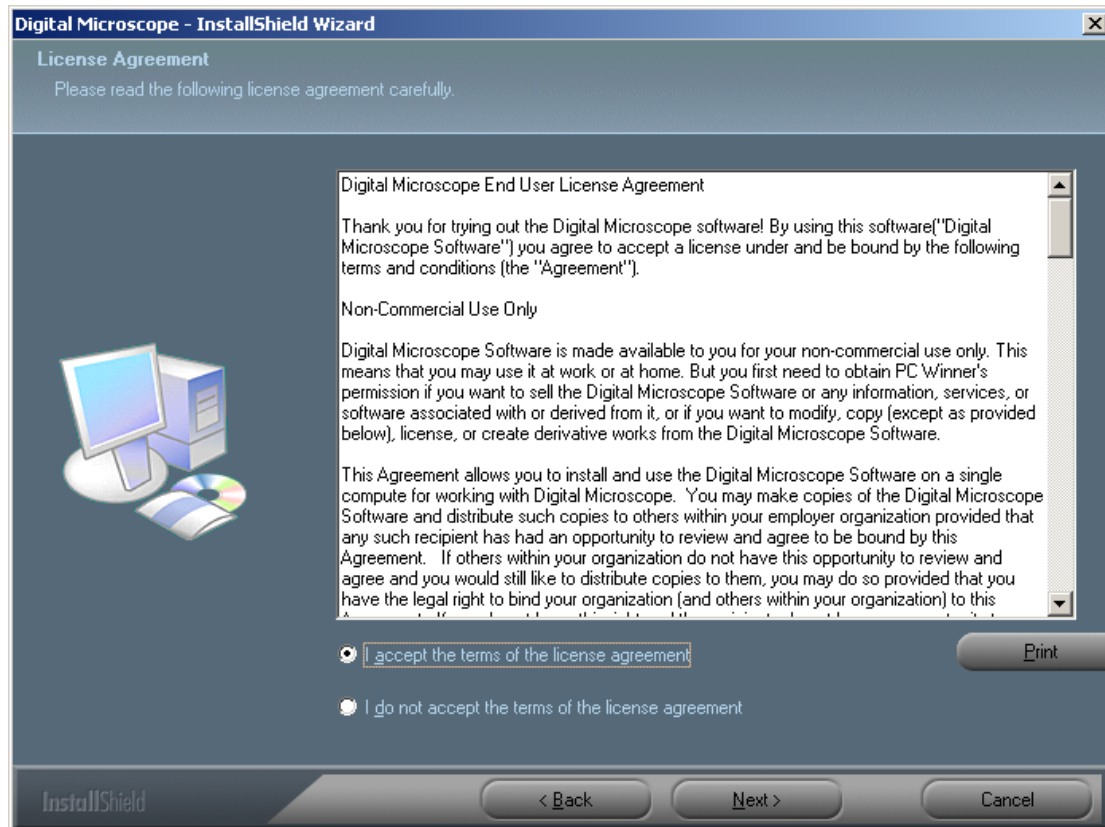
## Window Vista OS Installation

1. Please click Digital Microscope Software ,You will see a “User account control” popup. Please press “Allow” to continue or “Cancel” to abort installation.
2. You will see the following popup .Press “Next” to proceed or “Cancel” to abort installation.

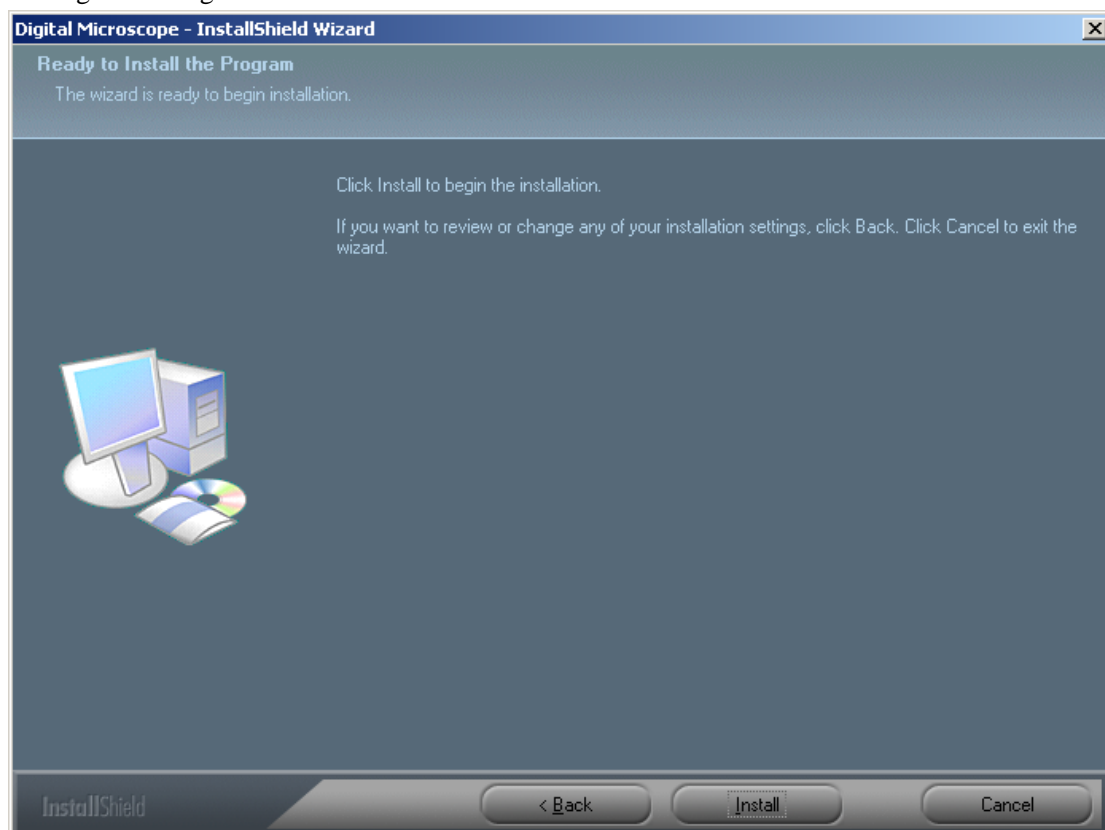


3. You will see the End User License Agreement. If you accept the License agreement, then you can Click the “Next” button which is availability to process, or “Cancel” to abort installation.



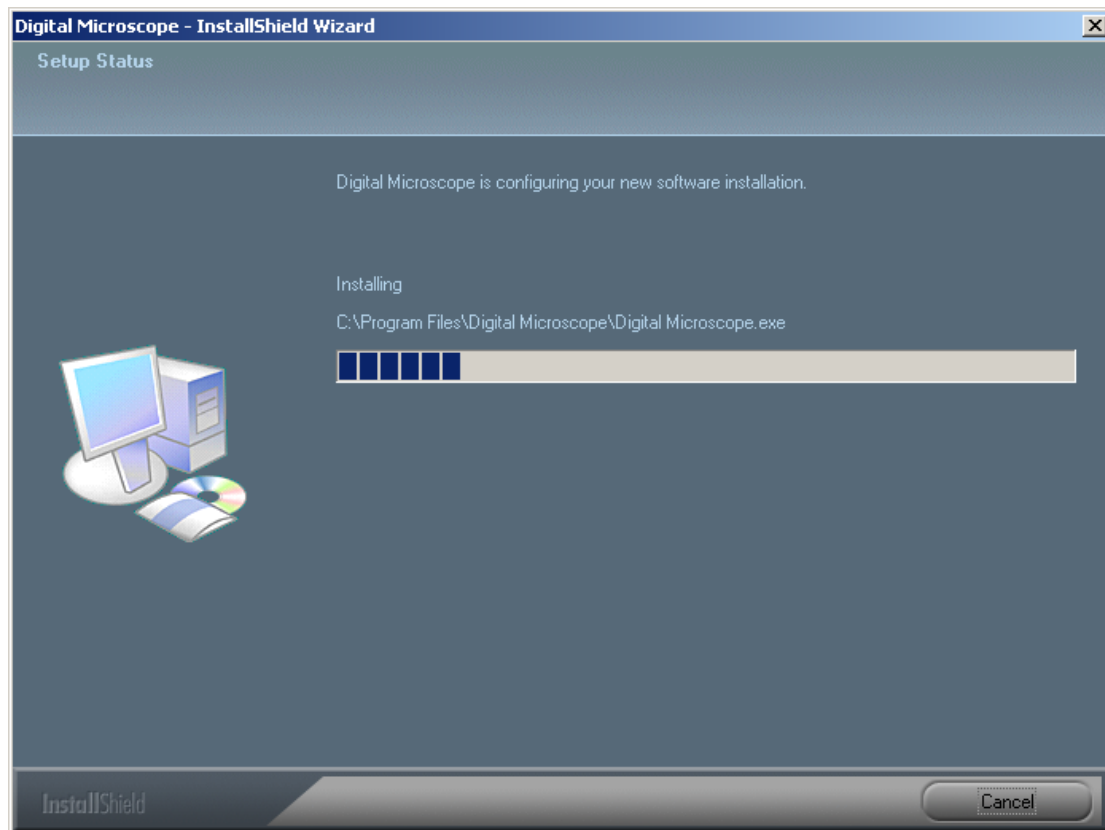


4. You will be able to install the application. Click “Install” to start to install, click “Cancel” button, it will abort installation. Click on “Back” if you wish to read the End User License Agreement again.

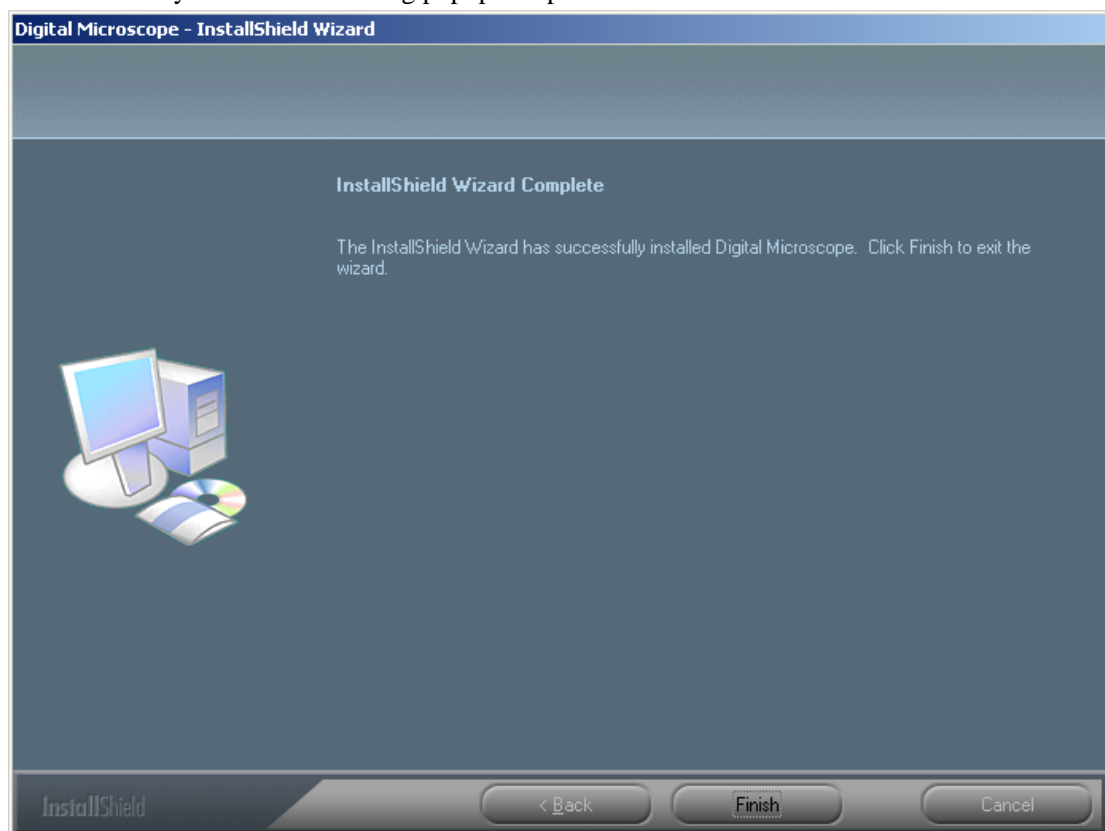


5. You will see the following progress bar below indicating that the installation is proceeding. If

click “Cancel” button, it will abort installation.



6. Wait until you see the following popup and press “Finish” button.



Please plug USB cable to U-Viewer USB handheld digital microscope Device to connect with PC. System will automatically search and install the driver.

## U-Viewer USB handheld digital microscope

### Connecting

The following procedure will show you how to properly connect U-Viewer USB handheld digital microscope with your PC.

- i. Connect USB Cable on U-Viewer USB handheld digital microscope to PC USB port



- ii. The U-Viewer USB handheld digital microscope has 1 switch on a sides as shown, please put the switch on “On” or “Led”



- iii. The USB 2.0 Digital Microscope the other sides as shown, you can regulate lamp light with the chain wheel.



## Operating U-Viewer USB handheld digital microscope

### Process

The following process will show you how to operate U-Viewer USB handheld digital microscope.

- ①. To have a right image, suggest holding U-Viewer USB handheld digital microscope as shown:



- ②. Put the to-be-observed object near the U-Viewer USB handheld digital microscope, the distance between both (object distances) don't exceed to 15CM.
- ③. Adjust the focus: Use any finger to rotate the "A" roller as shown, till the image is vivid



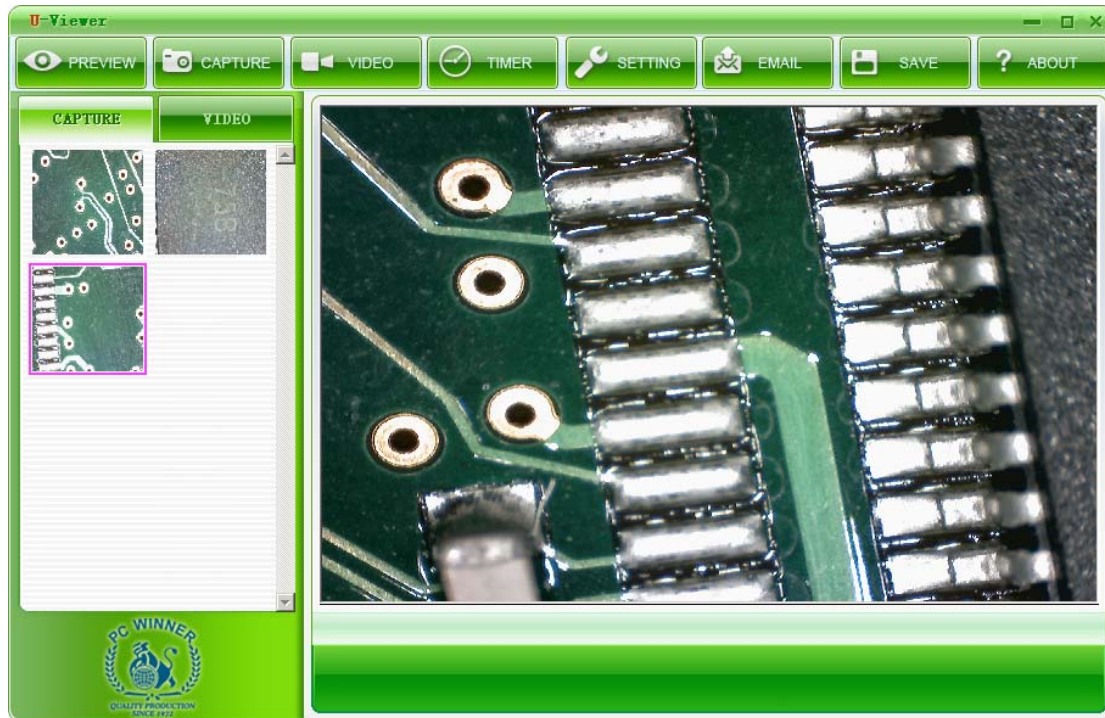
- ④. The Zoom times will be larger as U-Viewer USB handhold digital microscope is closer to the observed object.
- ⑤. When the observed object is located at the top of the transparent cover, there are two focus positions, each with different zoom times (250x and 50X), can be found by rotating the roller. If you want 51X~249X zoom times, you must take off the transparent cover to adjust the object distance.



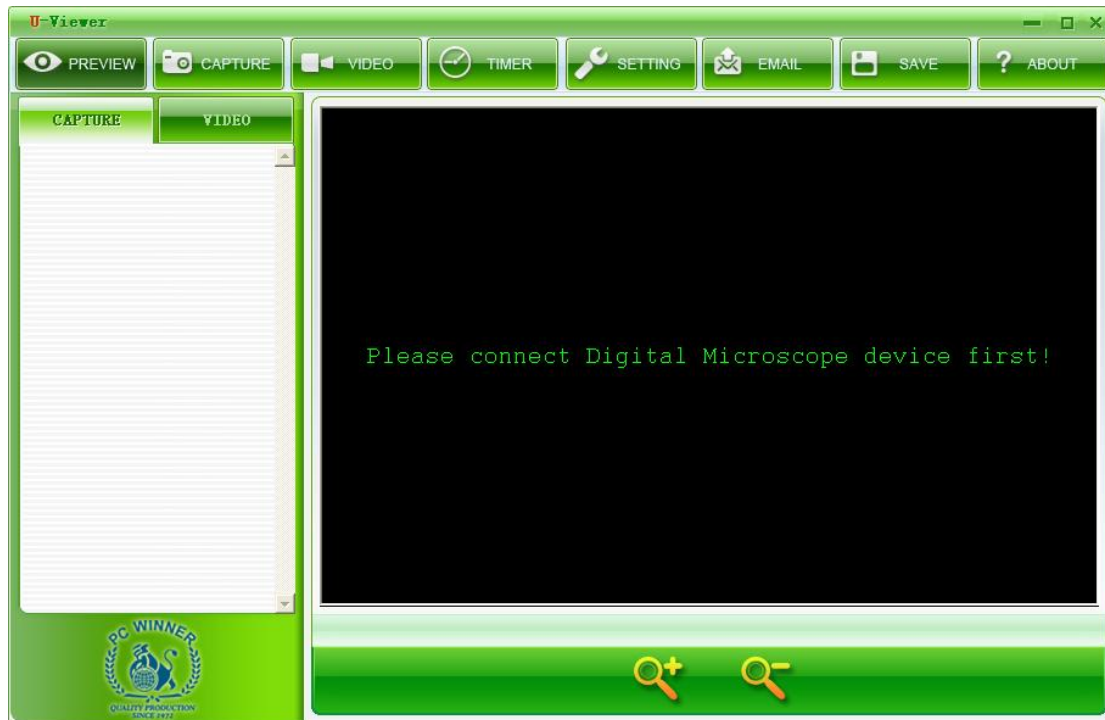
## U-ViewerCapture Application software

Note: Before start U-ViewerCapture, please make sure U-Viewer USB handhold digital microscope has been connected to PC via USB line

Double-Click U-ViewerCapture icon on desktop , the U-ViewerCapture main screen will be shown as below:



If U-Viewer USB handhold digital microscope has not been found while opening the U-ViewerCapture, the message will be shown as below:



## Tool Bar Description

**PREVIEW Button:** Two statuses as below



: Ready to view Pictures or video has been taken.



: Take Picture



: Take Video



: Take time lapsed Pictures



: Setting--Picture and Video setting



: Save as--A took-picture can be saved as “jpg” or “bmp” to your specified disk.



: Email



: About



Picture / Video Folder

Picture/Video Folder is on the left side of the program, which contains the thumbnails of picture or video captured by the program.

The Pictures/video in the folder will not be automatically deleted when closing the program. Thus, it is suggested to save manually the needful picture or video, and then keep this folder clean for file security and program's performance concern.

### Thumbnails remark



The picture or video has been saved



The picture or video has not yet been saved.



The Picture or video is selected, the mouse stay there, then click the right key of mouse to pop a menu, or click the related buttons of tool bar ,it can be viewed by double-clicking、be save、be mailed、be opened to edit、be deleted.

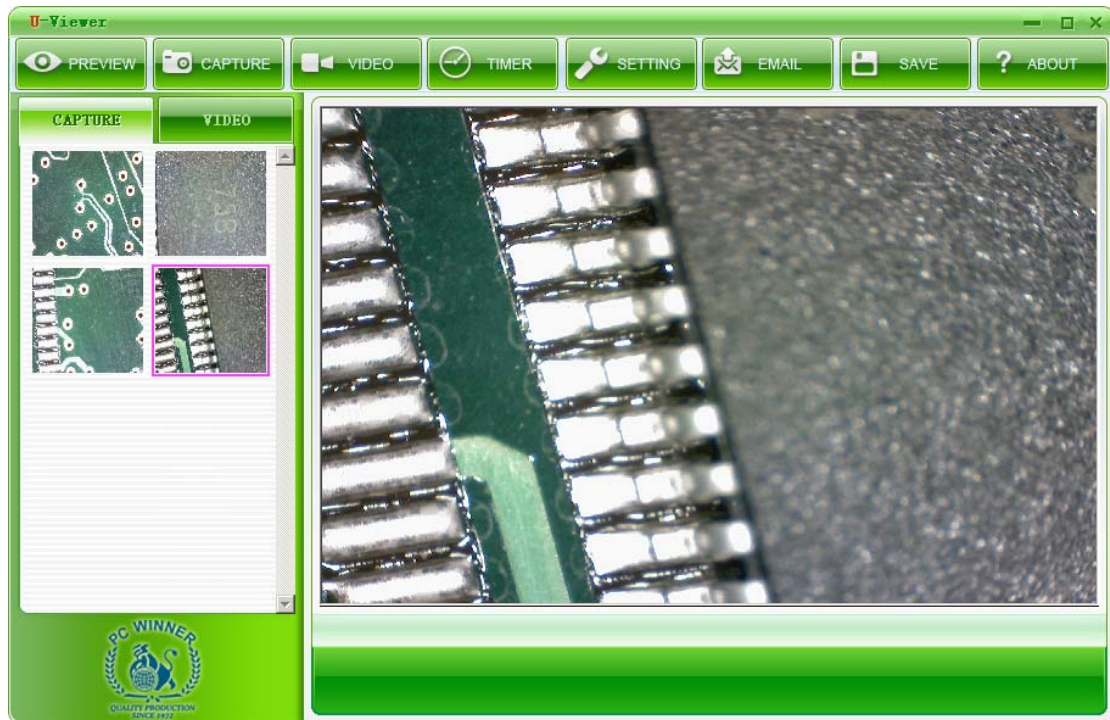
### Take Picture



You can take picture by clicking the icon on Tool bar or press this button on U-Viewer Transmitter device (Note: This is picture folder as below)







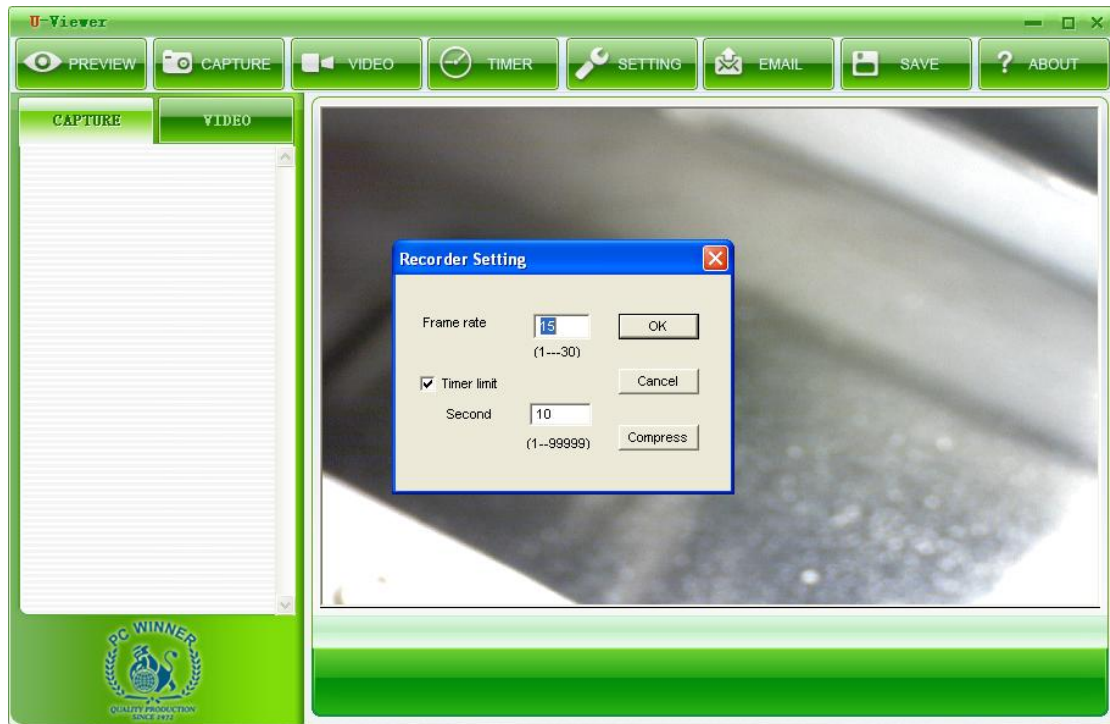
## Take Video



The Video can be taken by clicking  icon on Tool bar. (Note: This is Video folder as below).

Recorder setting:

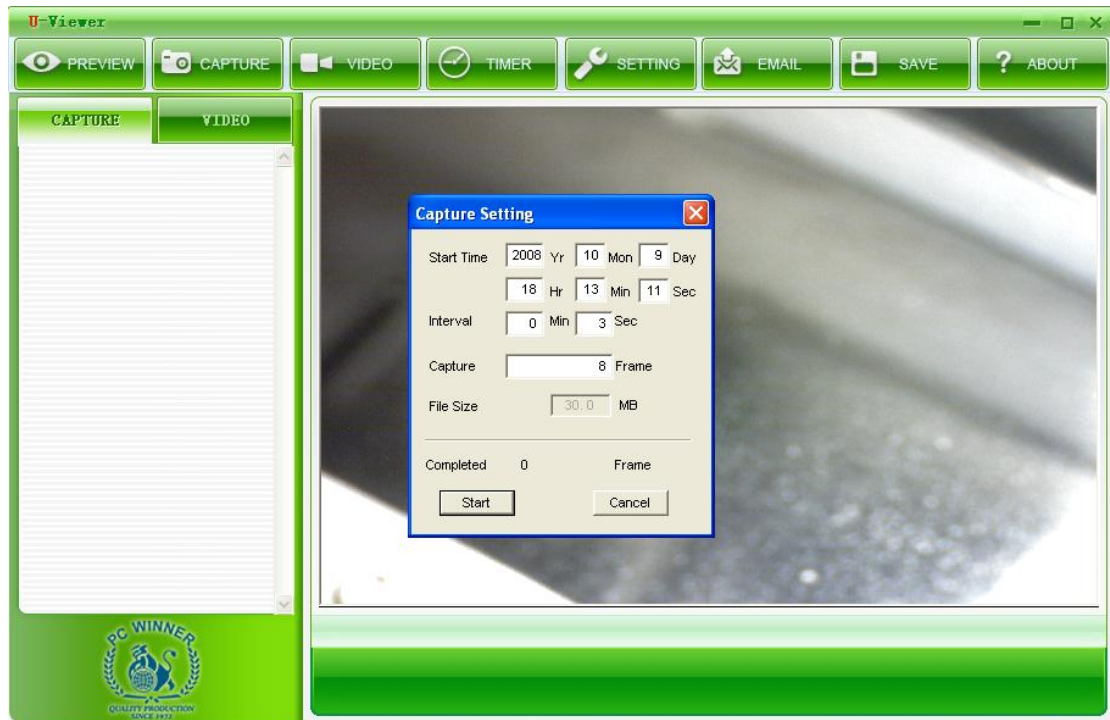
1. **Frame rate:** it is the number of frames or images that are projected or displayed per second. The number range is 1~30
2. **Timer limit:** it is the time of video recording to avoid video file size exceed to the space of disk. The number range is 1~99999
3. **Compress:** click it and you can select the video compressed format to reduce video size. It loads automatically compress programs according to your PC system. The video quality may be varied with different compress program.



## Take time lapsed Pictures

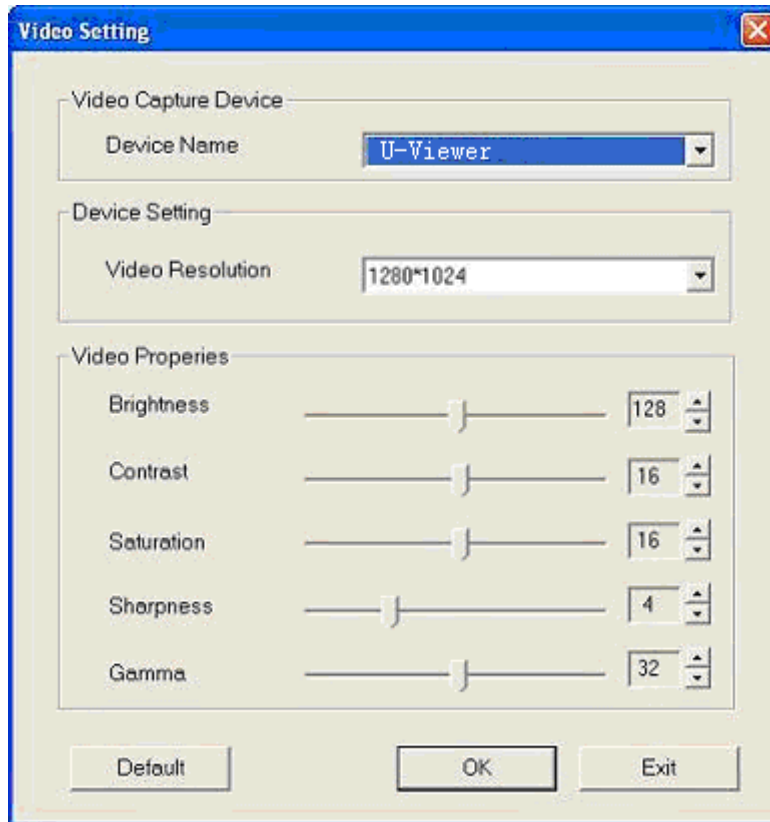


You can take time lapsed Pictures by click the icon of Tool Bar as below shown.



## Setting

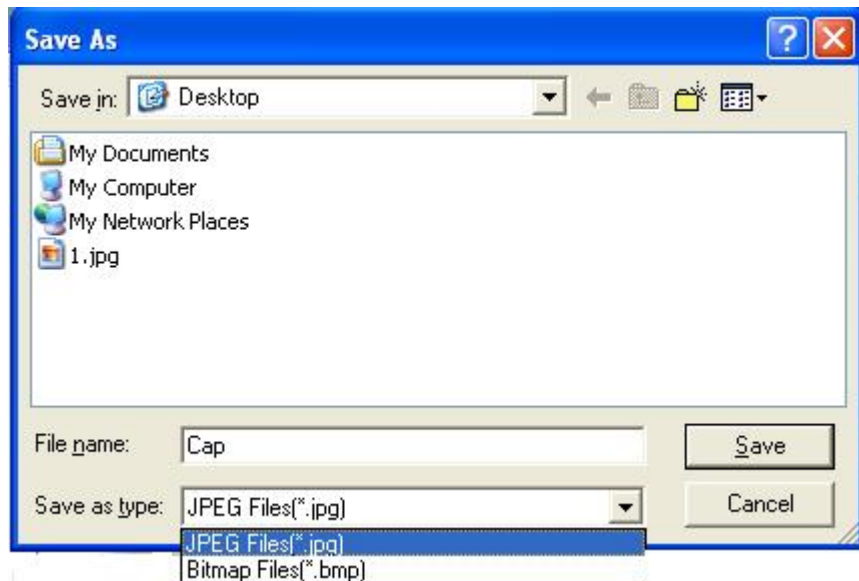
You can select video resolution and set the parameter of video properties.



## Save as



You can select a picture or video in Picture/Video folder, then click the Icon of Tool Bar, the file can be saved as “jpg” or “bmp” picture or video to your specified disk. Shown as below.



## Email

You can send a selected picture or video as email attachment to other guy by clicking the



Icon of Tool Bar.



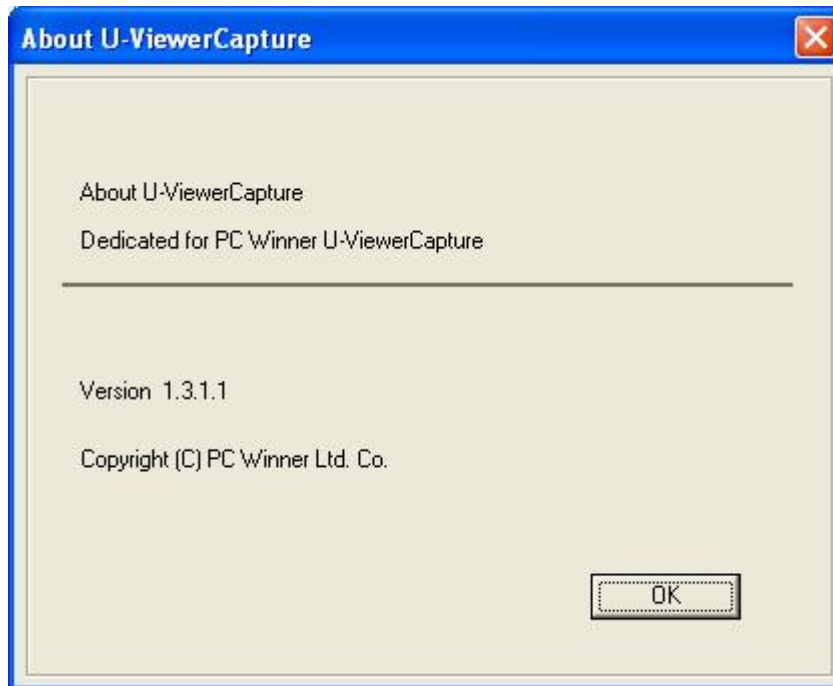
## About




You can click the icon of Tool Bar for help.

1. U-ViewerCapture User manual will instruct you how to use U-ViewerCapture application software.

2. U-Viewercapture Update : you can click it to see if there are any software update.
3. About U-ViewerCapture: you can check your present version via it as below shown:



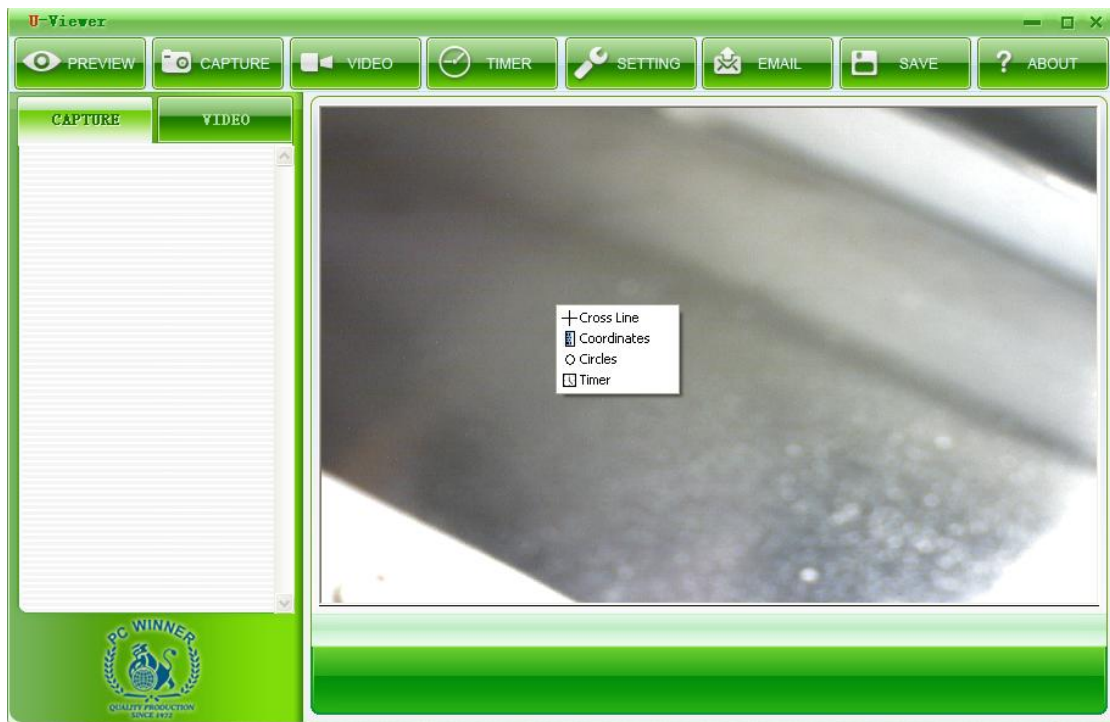
## Full Screen Display and return

These displays of real time preview or picture view/video playback can be enlarged to full screen by clicking the  icon on right-top of program screen or double-clicking the left key of mouse in a site of the preview area.

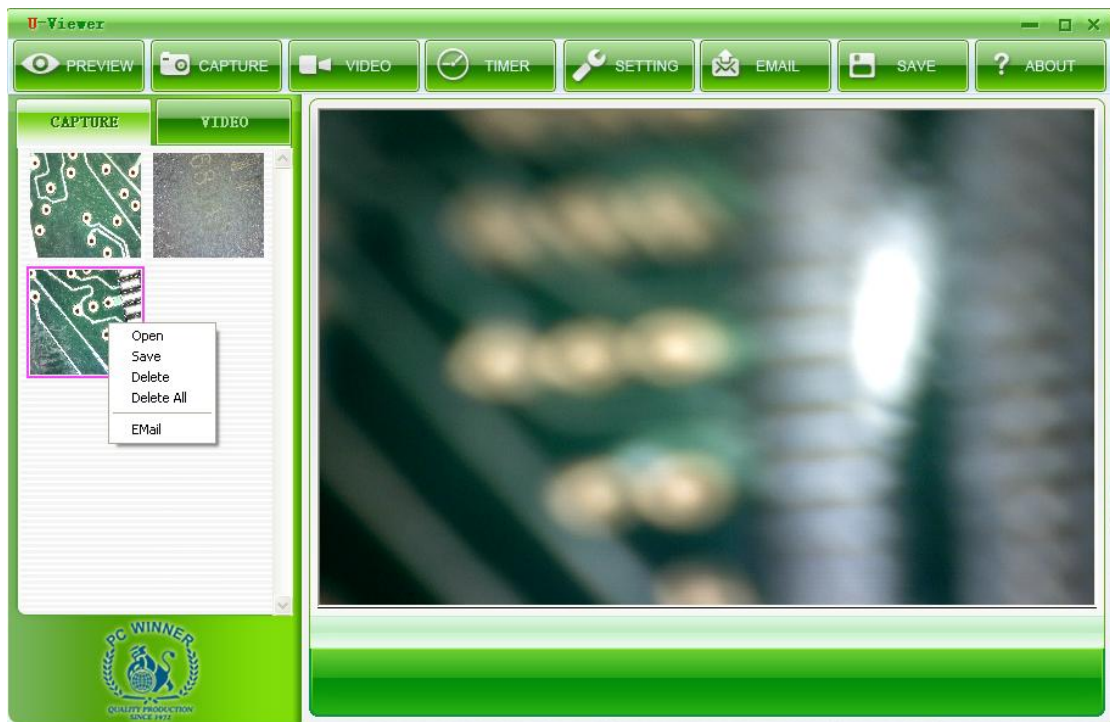
To return from full screen display mode, please press "ESC" key of keyboard or double-clicking the left key of mouse.

## Menu Function List

1. Add in cross line/coordinates/circles/timer on preview area: The mouse stay in the preview area, then click the right key and pop the menu as below. You can click the item you want.



2. Select a file in picture/video folder, then clicking the right key of mouse and pop the menu as below.

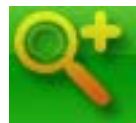
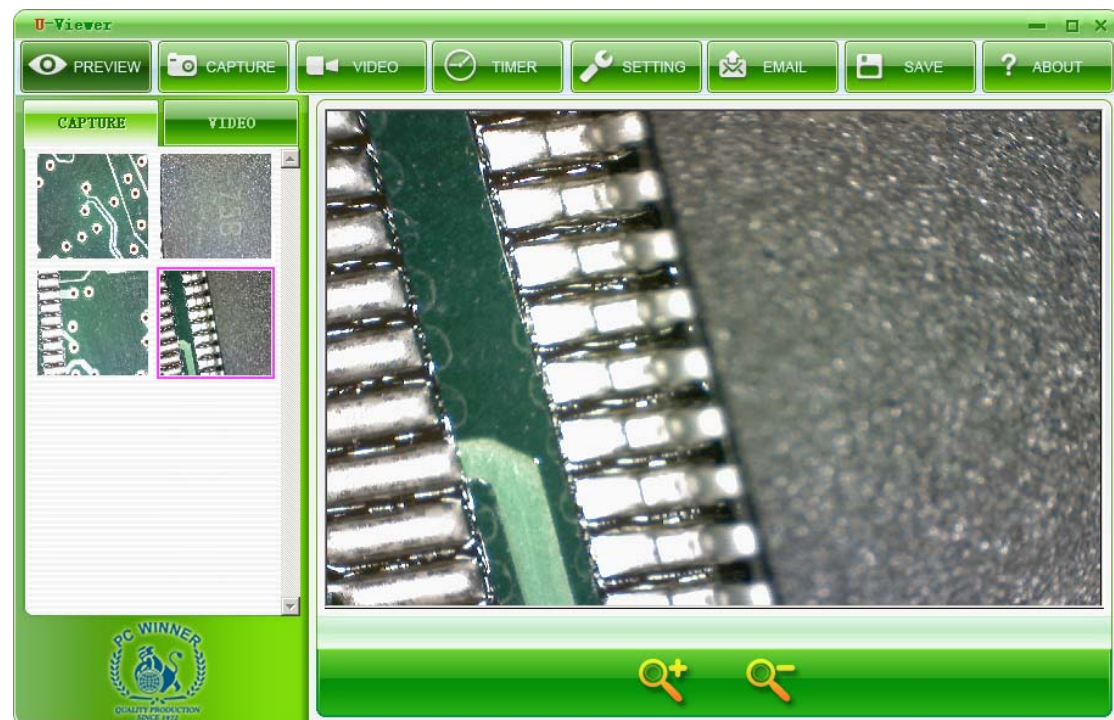


Note: Open-- use "paint" to open it for picture file; use "windows media player" to open it for video file.



## View Picture

You can double-click the selected picture in Picture folder to view it as below shown;



: Zoom In



:Zoom Out

## Video playback

You can double-click the selected video in video folder to play back it as below shown



: Play/Pause



: Stop



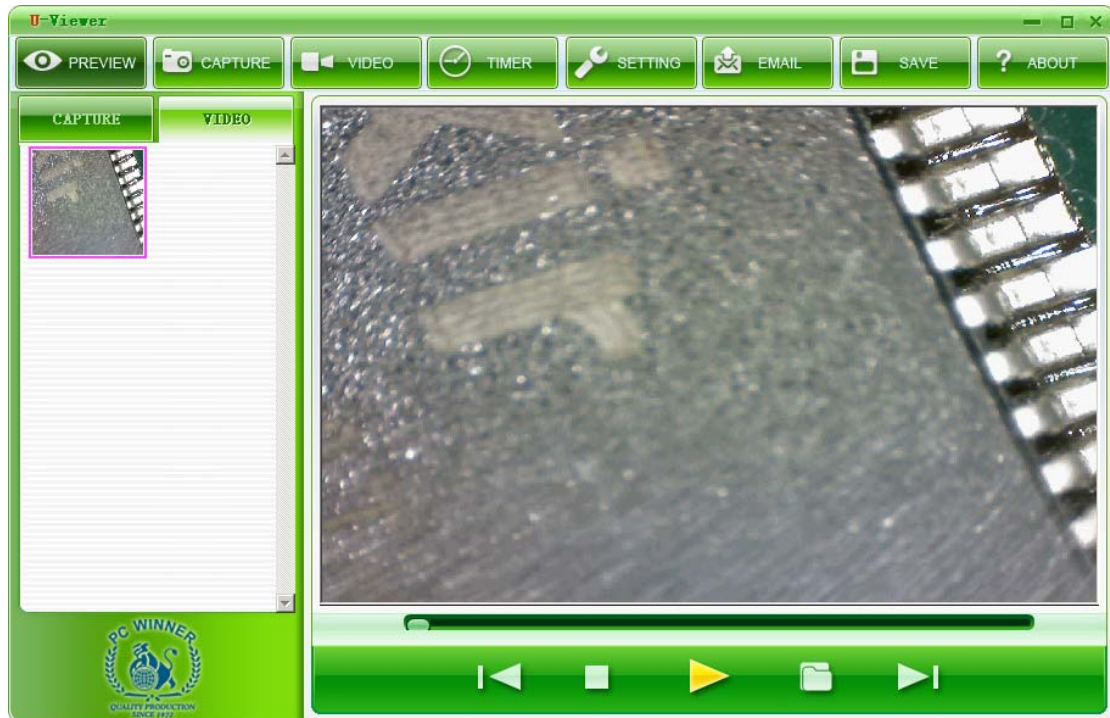
: Open a avi file



: Start



: Last



## Troubleshooting

### Common Fix

A. If U-Viewer device and U-ViewerCapture application were working OK and suddenly stops working properly, Please try the following:

1. Unplug or Power off U-Viewer device from PC
2. Close U-ViewerCapture program
3. After waiting for 1 minute, plug or power on U-Viewer device
4. open U-ViewerCapture program

B. For under **Recommended PC specification (see 4<sup>th</sup> page)**, maybe U-ViewerCapture program does not work properly, Please use the appendant AMCAP.exe: direct open it to work,(maybe need these steps: ToolBar->Device: select "U-Viewer device; ToolBar->Option: select "Preview")

C. For Vista first version OS system (Nor Vista SP1), maybe there is this issue: there are not any images (black screen) on preview area, please try: Toolbar->setting->default->Ok)



**D.** After PC resume from standby or hibernate, maybe U-ViewerCapture will not work properly, please close it and re-open to try.

## Q&A

Q1. Why the object cannot be found on the display of the U-Viewer microscope?

- A: a. Please check all the connection of all necessary cable and adapter are right  
b. Please check the power Led on U-Viewer device is light.  
c. Please put power switch on LED, then the illumination LEDs are light.

Q2. Why cannot work when connect to PC?

- A: a. Check driver and U-ViewerCapture installation are completed.  
b. The USB cable is connected correctly to U-Viewer Microscope and PC USB Port  
c. Please try to pitch all switch on varied status.

Q3. How to install U-ViewerCapture application and driver?

- A: a. Do not connect USB cable to U-Viewer Microscope before driver installation completed.  
b. Place installation CD into CD-Rom driver, select a right product name of “driver installation”.

Q4. How to connect “U-ViewerCapture”?

- A: a. complete driver installation, connect USB cable to U-Viewer Microscope, and then Execute “U-ViewerCapture” application Program.  
b. Please check: open U-ViewerCapture->setting to see if “Device name” item has an optional device.

Q5. How to uninstall driver and U-ViewerCapture software?

- A: In order to uninstall driver and U-ViewerCapture software, click on the uninstall utility from the Start button ->Control Panel -> Add or Remove Programs.

Q6. When connecting to PC, why the real-time display is slow or unsmooth?

- A: a. Probably your PC’s configuration is not sufficient enough. Please check the **Recommended PC specification** as mentioned in this User’s Manual.  
b. Probably your PC’s CPU or memory is overloaded by executing too many applications software. Try to shut down other applications and restart your PC to release the memory.  
c. Probably your system has being attacked by virus, which may dramatically degrade your system’s performance.

Q7. What should we do, if U-Viewer Microscope is not working normally?

- A: a. Please restart the system by disconnecting all the cables from U-Viewer Microscope, Wait for about 10 sec., re-connecting the cables to restart.

If there are still some issues on U-Viewer Microscope, please contact: sales@pcwinner.com.tw